

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: IRiS

Report Number: P106570

Luminaire Tested: **P3LED09FL40930-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13686)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: P3LED09FL40930-E3LWWH
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH
SEMI SPECULAR CLEAR OPTICAL ELEMENT
AND 40 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE
Light Source: (1) 3000K 90CRI LED
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 495.0 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 0.82 / 0.99
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

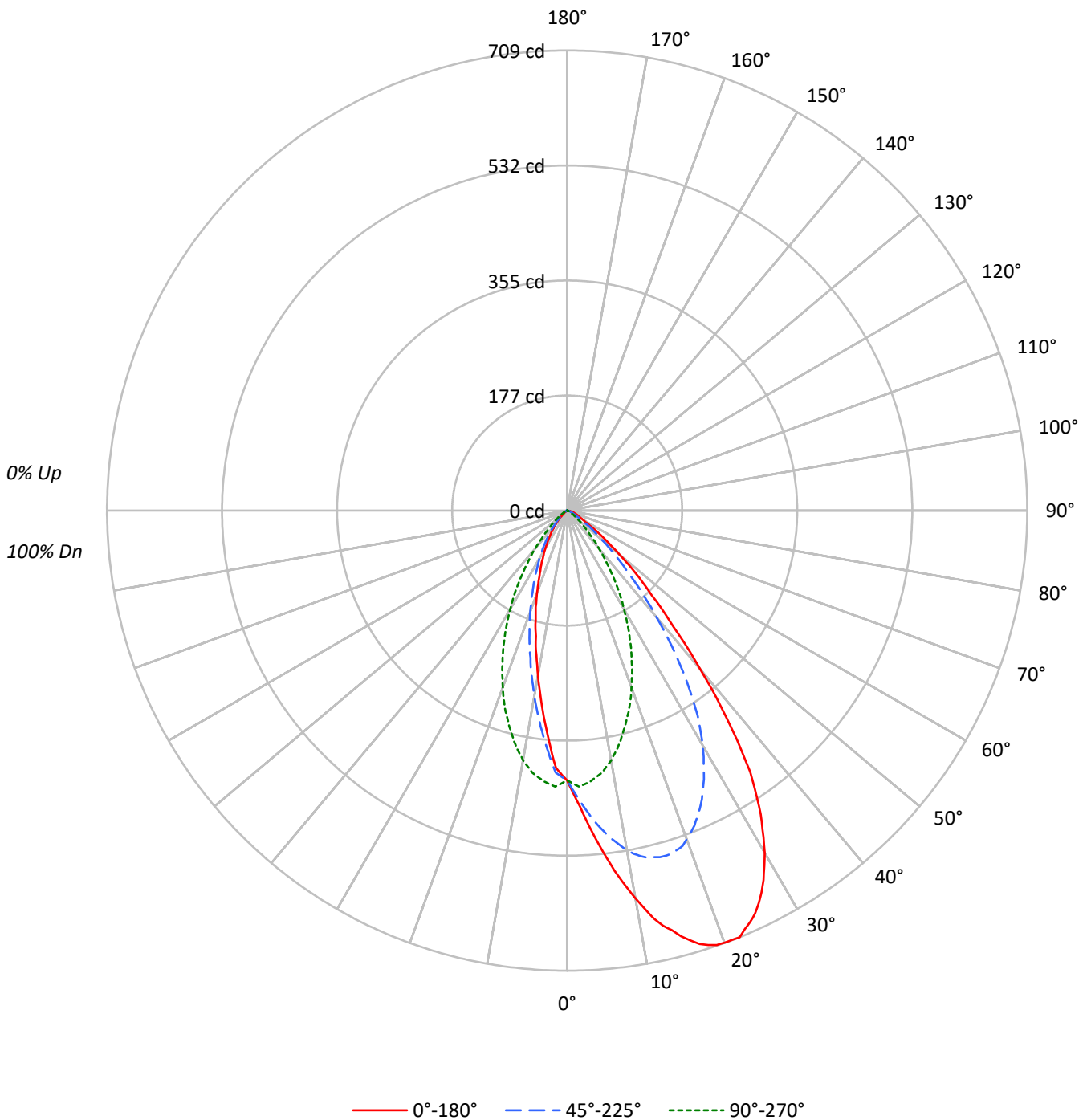
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	79	77					77			
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70					70			
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65					65			
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59					59			
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55					55			
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51					51			
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44					44			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	66955	66955	66955
5°	82121	67647	55987
10°	99282	63898	42304
15°	113232	57408	31456
20°	121485	49650	23213
25°	121764	41311	16994
30°	113272	32573	12408
35°	96703	23974	8752
40°	67151	16299	5657
45°	42036	9660	2916
50°	26492	5915	1679
55°	15504	3399	758
60°	8893	1740	419
65°	6938	1792	1029
70°	5700	612	330
75°	4606	436	0
80°	3711	649	0
85°	1294	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	8.1
10°-20°	109.0	22.0
20°-30°	141.0	28.5
30°-40°	118.5	23.9
40°-50°	58.3	11.8
50°-60°	18.9	3.8
60°-70°	6.2	1.3
70°-80°	2.6	0.5
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	289.9	58.6
0°-40°	408.4	82.5
0°-60°	485.6	98.1
0°-90°	495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	416	416	416	416	416	
5°	508	480	418	365	346	52
15°	679	553	344	222	189	192
25°	685	491	232	121	96	311
35°	492	321	122	57	44	297
45°	184	128	42	18	13	150
55°	55	37	12	5	3	52
65°	18	10	5	1	3	19
75°	7	3	1	1	0	8
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6
2.5°	456.7	456.7	456.7	455.3	454.6	453.3	451.9	450.6	449.2	447.2	445.2
5°	507.8	508.5	507.2	505.8	502.5	499.1	495.0	491.0	485.6	480.2	475.5
7.5°	559.7	558.4	556.3	553.0	548.9	542.2	535.5	526.7	517.9	508.5	497.7
10°	606.9	605.5	602.1	596.7	590.0	581.3	570.5	558.4	545.6	531.4	516.6
11°	624.4	621.7	619.0	612.9	605.5	594.1	584.0	569.1	554.3	538.8	521.3
12°	642.5	639.2	635.8	628.4	619.0	606.9	594.7	578.6	561.7	544.2	525.4
13°	656.7	654.7	649.3	641.2	631.8	618.3	603.5	586.6	567.8	548.9	528.7
14°	666.1	664.8	660.1	652.0	639.9	626.4	610.9	592.0	571.2	550.3	528.0
15°	678.9	677.6	672.2	662.8	651.3	635.8	618.3	598.1	575.9	553.0	528.7
16°	689.0	687.7	681.6	673.5	657.4	641.2	623.0	600.1	577.2	553.0	526.7
17°	698.5	696.4	689.7	678.2	663.4	647.3	626.4	604.2	578.6	552.3	524.7
18°	703.8	701.1	694.4	683.6	668.8	650.0	627.7	604.2	577.9	549.6	521.3
19°	707.9	704.5	697.1	685.7	670.2	650.0	627.1	601.5	573.8	546.2	515.9
20°	708.6	706.5	699.1	686.3	669.5	648.6	625.0	598.1	569.8	538.8	508.5
21°	708.6	705.2	697.1	684.3	666.8	645.2	620.3	592.7	562.4	531.4	501.1
22°	709.2	702.5	696.4	682.3	662.8	640.5	614.9	586.0	555.0	523.3	491.7
23°	700.5	697.1	688.3	674.9	655.3	632.4	606.9	575.9	546.2	513.2	480.2
24°	693.7	693.1	682.3	668.1	647.3	624.4	597.4	567.8	536.1	502.5	469.5
25°	685.0	681.6	672.2	657.4	637.8	613.6	586.6	555.7	524.0	491.0	456.7
26°	673.5	670.2	661.4	645.9	626.4	602.1	575.2	544.2	511.9	477.5	444.5
27°	660.1	656.0	647.3	633.1	611.6	587.3	560.4	530.1	497.7	464.1	429.7
28°	644.6	641.2	631.8	616.3	596.1	572.5	544.9	513.9	482.2	448.6	414.9
29°	626.4	623.0	614.9	599.4	580.6	557.0	528.0	497.7	466.8	433.8	400.8
30°	608.9	606.9	598.8	583.3	562.4	539.5	511.2	482.2	450.6	417.6	384.6
32.5°	555.0	551.6	544.2	530.1	511.2	488.3	462.7	434.4	404.1	373.8	342.8
35°	491.7	486.3	477.5	464.7	446.6	425.7	402.1	375.8	349.6	321.3	293.7
37.5°	405.5	403.4	396.0	384.6	371.1	352.3	334.7	312.5	289.6	266.7	243.8
40°	319.3	316.6	311.8	303.8	294.3	282.2	266.7	249.9	233.0	214.9	197.3
42.5°	242.5	241.8	237.8	233.0	225.6	216.2	205.4	193.3	181.9	168.4	154.2
45°	184.5	183.9	181.2	177.1	171.1	164.3	155.6	146.8	137.4	128.0	117.9
47.5°	144.1	140.8	138.7	134.7	130.0	123.9	118.5	111.1	104.4	96.3	88.2
50°	105.7	105.1	103.1	100.4	96.3	92.3	88.2	82.2	76.8	70.7	66.0
52.5°	75.4	76.8	75.4	72.7	71.4	66.7	64.0	59.9	55.9	51.2	46.5
55°	55.2	54.6	53.9	52.5	50.5	48.5	46.5	43.8	40.4	37.0	33.7
57.5°	35.7	35.0	35.7	33.7	32.3	32.3	29.0	27.6	24.2	22.2	21.6
60°	27.6	26.9	26.3	25.6	24.2	23.6	22.2	20.2	18.9	16.8	16.2
62.5°	21.6	21.6	20.9	20.2	19.5	18.2	17.5	16.2	14.8	13.5	11.4
65°	18.2	17.5	17.5	16.8	16.2	15.5	14.1	13.5	11.4	10.1	10.1
67.5°	15.5	13.5	14.1	12.8	12.1	12.1	10.8	8.8	8.1	6.7	6.7
70°	12.1	12.1	12.1	12.1	10.8	10.1	8.8	10.1	8.1	6.7	6.1
72.5°	10.8	10.1	10.8	10.8	9.4	8.8	8.1	8.1	6.1	5.4	5.4
75°	7.4	6.7	8.1	6.1	6.1	5.4	4.0	4.0	4.7	3.4	3.4
77.5°	4.7	4.7	4.7	4.7	4.0	4.0	4.0	2.7	2.7	2.0	1.3
80°	4.0	4.0	4.7	3.4	3.4	3.4	2.7	3.4	2.0	2.0	2.0



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CATALOG NUMBER: P3LED09FL40930-E3LWWH

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.3	2.0	2.0	1.3	2.0	2.0	1.3	1.3	0.7	0.7	1.3
85°	0.7	1.3	0.7	0.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.7	0.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: P3LED09FL40930-E3LWWH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6
2.5°	443.2	440.5	438.5	436.4	433.1	430.4	428.4	425.7	414.2	404.1	398.1
5°	468.1	461.4	454.6	446.6	440.5	433.1	425.7	418.3	388.6	365.1	350.9
7.5°	487.6	475.5	464.1	453.3	441.8	429.7	417.6	407.5	361.0	327.3	307.8
10°	501.1	484.3	468.8	452.6	436.4	420.3	404.8	390.6	332.1	290.3	266.0
11°	503.8	485.6	468.1	449.9	432.4	415.6	398.1	381.9	319.3	275.5	251.2
12°	506.5	487.0	467.4	447.2	427.7	408.8	392.0	373.8	307.8	262.0	236.4
13°	507.2	485.6	464.7	443.2	423.0	402.1	383.2	364.4	295.0	248.5	222.3
14°	504.5	481.6	458.7	435.8	414.9	393.3	372.5	353.6	280.9	233.7	207.4
15°	504.5	478.9	456.0	431.1	408.8	385.9	364.4	344.2	270.1	222.3	196.7
16°	501.1	474.8	449.9	425.0	400.1	376.5	353.6	333.4	257.3	210.8	185.2
17°	497.1	470.1	444.5	418.3	392.7	367.1	344.8	324.0	245.8	198.7	174.4
18°	492.4	464.1	436.4	409.5	382.6	357.6	334.7	313.2	235.1	187.9	162.3
19°	485.6	454.6	427.0	399.4	373.1	346.9	324.0	302.4	224.3	176.5	152.2
20°	477.5	447.2	418.3	388.6	361.7	336.1	312.5	289.6	212.2	165.7	142.1
21°	469.5	436.4	406.8	377.2	350.2	324.0	300.4	278.2	200.7	155.6	133.4
22°	458.7	427.0	396.7	367.1	339.5	313.2	290.3	267.4	190.6	146.8	124.6
23°	447.2	414.2	384.6	355.6	327.3	300.4	276.8	254.6	178.5	136.7	115.8
24°	435.8	403.4	371.8	342.8	314.5	289.6	266.0	243.8	169.7	128.0	107.8
25°	424.3	390.6	361.0	330.7	302.4	277.5	253.9	232.4	159.6	120.6	100.4
26°	411.5	377.2	348.2	318.6	290.3	265.4	242.5	220.2	150.9	112.5	95.0
27°	396.7	363.7	334.7	304.4	278.2	251.9	230.3	209.5	140.8	104.4	88.2
28°	382.6	350.9	320.6	291.0	265.4	239.8	218.2	197.3	132.0	97.7	81.5
29°	369.8	336.8	307.1	279.5	251.9	227.7	206.1	186.6	123.3	90.9	76.1
30°	353.6	321.9	293.0	265.4	239.8	216.2	194.0	175.1	115.2	85.5	71.4
32.5°	312.5	282.9	255.3	229.7	206.1	183.2	165.0	148.9	95.6	70.0	58.6
35°	265.4	239.1	216.9	194.0	172.4	153.6	136.7	121.9	76.1	56.6	47.1
37.5°	221.6	198.7	178.5	159.0	140.8	124.6	110.5	97.7	59.9	44.5	36.4
40°	179.8	161.0	143.5	128.0	113.8	99.0	87.6	77.5	46.5	35.0	29.6
42.5°	140.1	126.0	112.5	99.0	86.9	76.1	66.0	57.9	35.7	25.6	21.6
45°	107.1	95.6	84.9	75.4	64.7	55.9	48.5	42.4	26.3	18.2	14.1
47.5°	80.2	71.4	64.7	55.9	49.2	42.4	37.0	31.7	20.2	14.1	10.1
50°	58.6	53.2	46.5	39.7	34.4	30.3	26.9	23.6	14.8	8.8	5.4
52.5°	41.8	36.4	33.0	29.6	24.9	21.6	18.2	16.2	10.1	5.4	5.4
55°	29.6	26.3	23.6	20.9	16.8	14.8	13.5	12.1	7.4	4.7	3.4
57.5°	17.5	15.5	12.1	10.1	8.8	8.1	6.7	5.4	1.3	0.0	0.0
60°	14.1	12.1	11.4	9.4	8.1	7.4	6.7	5.4	3.4	2.0	2.0
62.5°	10.8	9.4	8.8	8.1	7.4	6.7	6.1	4.7	2.7	2.0	2.0
65°	8.8	8.1	6.7	6.1	5.4	4.7	3.4	4.7	2.0	1.3	0.7
67.5°	5.4	3.4	3.4	2.7	2.0	2.0	2.0	0.7	0.0	0.0	0.0
70°	5.4	4.7	5.4	3.4	3.4	2.7	2.0	1.3	1.3	0.0	0.0
72.5°	4.0	3.4	4.0	2.7	2.7	2.0	2.0	1.3	0.7	1.3	1.3
75°	3.4	2.7	2.7	1.3	2.0	1.3	0.0	0.7	1.3	0.7	0.7
77.5°	2.0	0.7	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7
80°	2.0	2.0	1.3	1.3	0.7	1.3	2.7	0.7	0.7	0.7	1.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7
85°	1.3	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
87.5°	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	180°
0°	415.6
2.5°	396.7
5°	346.2
7.5°	300.4
10°	258.6
11°	242.5
12°	227.7
13°	214.9
14°	199.4
15°	188.6
16°	175.8
17°	165.7
18°	156.3
19°	144.8
20°	135.4
21°	126.0
22°	117.9
23°	109.1
24°	101.7
25°	95.6
26°	89.6
27°	82.8
28°	77.5
29°	72.1
30°	66.7
32.5°	54.6
35°	44.5
37.5°	34.4
40°	26.9
42.5°	19.5
45°	12.8
47.5°	9.4
50°	6.7
52.5°	3.4
55°	2.7
57.5°	0.0
60°	1.3
62.5°	2.0
65°	2.7
67.5°	0.0
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P106570

CATALOG NUMBER: P3LED09FL40930-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)